

SOPHOS

Security made simple.

Operating Instructions

Sophos Access Points

Foreword

We are pleased to welcome you as a new Sophos Access Point customer.

These operating instructions will help you install and configure the access point and provide technical specifications of all Sophos access point models. In addition, please also see the following documents that contain useful information on safety, regulatory compliance, and configuration options:

- Sophos Access Points Safety Instructions and Regulatory Information
- Sophos UTM Administration Guide: Configuring the UTM hardware and software appliance

The instructions must be read carefully prior to using the device and should be kept in a safe place. You may download all user manuals and additional documentation from the Sophos Knowledgebase at <http://www.sophos.com/en-us/support/knowledgebase.aspx>.

Introduction

UTM Wireless Protection simplifies the operation of secure and reliable wireless networks. It combines affordable and configuration-less access points through a built-in wireless controller in the in Sophos UTM. The wireless controller itself centrally manages all wireless access points; all you need to do is plug in the device anywhere in your network. The access point will find the controller, fetch its configuration and become operable within seconds. In addition, it easily provides wireless guest Internet access during the initial setup, unless you explicitly deny automatic configuration.

Installation

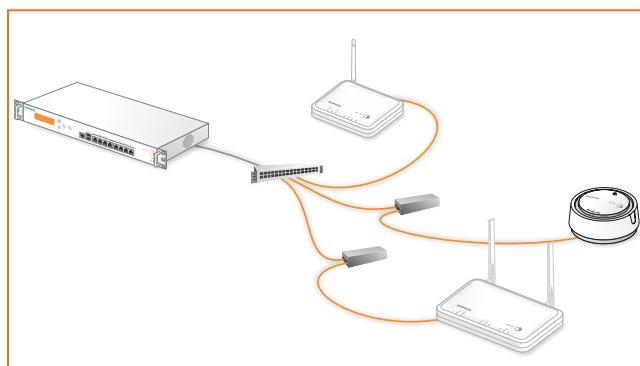
AP 10/15/30/50/100

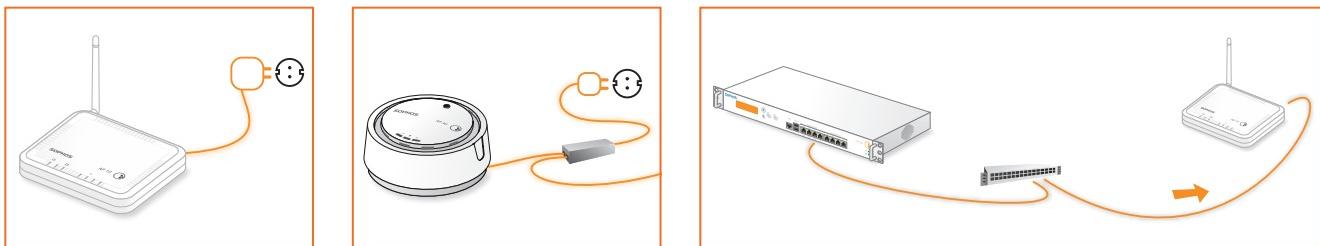
Preliminary steps

Please update your UTM appliance to the latest version available. Note that you also need a valid UTM Wireless Protection subscription to operate the Sophos Access Points.

Connect the access point to the internal network

Decide where you would prefer to place the access point, and put the access point in that location. For mounting instructions, see below. Now connect the access point to your internal network by plugging in the network cable to the access point's RJ45 or LAN (PoE) Ethernet interface, respectively.





Connect the access point to the power supply

The AP 30, AP 50, and AP 100 can be powered directly through the Power-over-Ethernet-injector. Note that it is also possible to power them by a PoE-compliant switch. For more information on PoE-injectors, see below.

Connect the AP 10 and AP 15 to the power supply. Please use the power supply from the scope of supply. Note that the AP15 can also be operated through a PoE-injector or PoE-compliant switch.

Start the communication between the access point and the UTM appliance

When connected to the network, the access point will try to receive an IP address via DHCP. Therefore, you need either the UTM appliance (with a DHCP server enabled and listening on the interface the access point is connected to) or any other DHCP server to provide an IP address for the access point.

After successfully receiving an IP address, the access point will communicate with the UTM appliance. For this to happen, the UTM appliance needs to be put in the upstream of the access points, either being the default gateway of the access points (which was provided by the DHCP service) or on the default route (most likely your route to the Internet).

Please note that the actual Internet access is not necessary to use UTM Wireless Protection. While waiting for DHCP and searching for the UTM appliance, the access point's power LED will blink slowly.

Enable UTM Wireless Protection on the UTM appliance

In WebAdmin, navigate to the Wireless Protection menu entry. On the Global Settings tab, click the Enable button. When enabling Wireless Protection for the first time, the Initial Setup frame will appear. It shows the configuration which will be created: A separate Wireless "Guest" network using WPA2 personal with DHCP for wireless clients, which will be allowed to use DNS on the UTM appliance and the "Web Surfing" service.

The pre-shared key is auto-generated and will only be shown in this section. This configuration is intended as a template, you can edit the settings at any time on the Wireless Protection > Wireless Networks tab. You can also skip the initial setup by ticking the checkbox on the bottom of the section.

Accepting the access point

The UTM appliance will start to communicate with the access point and they will show up as "Pending" on the Wireless Protection > Access Points tab in WebAdmin. The ID of the Access Points, shown in square brackets, is also printed on the bottom of the device. It can be used to distinguish the access point. By clicking the Accept button, you are given the option to select the channel this access point will transmit on. When leaving the channel setting on "Auto", the access point will use the least used channel.

We also suggest to give the access point a meaningful location (e.g., "Meeting Room") as this will ease handling multiple access points. After clicking the Save button, the access points will reboot. Upon reconnect, the access point will check if a more recent firmware is available. If so, they will automatically perform a firmware update. During the firmware update, the access point's power LED will blink rapidly.

ID:	A40001599BA2BA3
Location:	[]
Country:	Germany
Advanced	
Channel 2.4 GHz:	Auto
TX Power 2.4 GHz:	100%
VLAN tagging:	Disabled
Group:	:: No Group ::
<input checked="" type="button"/> Save <input type="button"/> Cancel	



Important note: Do not unplug the power while the firmware is updating. Otherwise the access point will be rendered inoperable and must be returned to the reseller.

The access point will then reboot to complete the firmware update. If no new firmware is available, the access point is operational and appears as "Active" in WebAdmin.

AP 10

Scope of supply



Sophos AP 10



SOPHOS
Safety Instructions and
Regulatory Information
Sophos Access Points



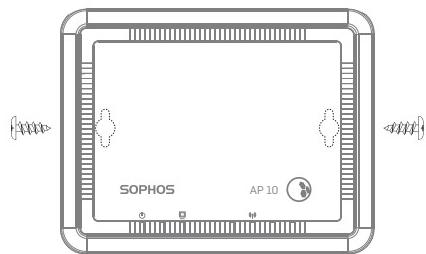
Power supply



Detachable dipole antenna



Ethernet cable



Power

10/100 Base-TX

Reset

Mounting instructions

The Sophos AP 10 can be mounted on the wall. Screws are not included in delivery. Only use screws whose dimensions correspond with the mounting holes on the back side.

Controls

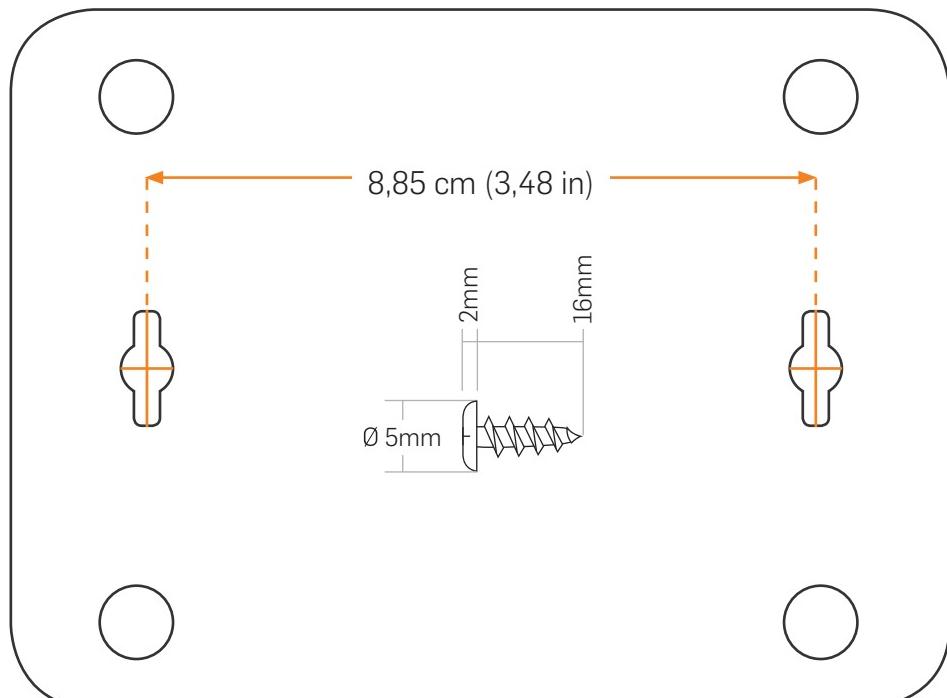
Power (LED display)	
Off	Power off
On continuously	Power on
Blinking rapidly	Firmware update
Blinking slowly	No connection to the Sophos UTM
LAN connection (LED display)	
On continuously	Network connection, no activity
Blinking	Network activity
WLAN access (LED display)	
On continuously	Network connection, no activity
Blinking	Network activity
Interfaces and buttons	
DC-IN	Power
RJ45	10/100 Base-TX interface
Reset	Currently not supported

Technical specifications

Sophos AP 10			
Chassis	Plastic housing, white		
Maximum throughput	150 Mbit/s		
LAN interfaces	1 x 10/100 Base-TX		
Supported WLAN standards	802.11 b/g/n 2.4 GHz		
Antenna	1 x detachable dipole antenna (2 dBi)	Connector type: RP-SMA	
Frequencies / channels	2.412–2.462 GHz	Channels 1-11	
Power supply	100-240 VAC, 50/60 Hz, max. 0.3 A		
Power consumption	8 W (max.)		
Power-over-Ethernet	No		
Dimensions W x H x D	124 x 25 x 96 mm		
Weight	130 g		
Temperature range	Operating: 0°C to 45°C	Storage: -20°C to 70°C	
Humidity (non-condensing)	5% to 95%		
Mounting	Desktop / wall		
Supported security standards	WPA/WPA2, WEP, 802.1X (RADIUS)		
Number of supported SSIDs	8		
Regulatory compliance		CE	FCC
	Radio:	EN 300328	CFR 47, Part 15 Subpart C
	EMC:	EN 301489-1, EN 301489-17	CFR 47, Part 15 Subpart B
	EMF:	EN 50385	FCC 1.1310, IEEE C95.1
	Safety:	EN 60950-1	N/a
			MIC/VCCI (Japan)
			Certification ID: 201 WW 11215237
			V-3/2011.04 V-4/2010.04
			N/a
			N/a

AP 10 Mounting template

Do not shrink to fit when printing



AP 15

Scope of supply



Sophos AP 15



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Security Notes



Power supply



2 Detachable dipole antenna



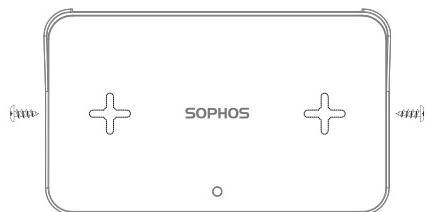
2 screws and dowels



Ethernet cable



Important note: Sophos AP15 requires Sophos UTM V 9.207 to be installed.



10/100/1000 Base-TX

Power

Mounting instructions

The Sophos AP 15 can be mounted on the wall. Screws are included in delivery.

Controls

	LED
Green - blinking slowly	AP is booting
Green - blinking rapidly	Network connectivity
Orange - blinking slowly	No connection to the Sophos UTM
Orange - blinking rapidly	Firmware update
Interfaces and buttons	
12V DC-IN	Power
LAN (PoE)	10/100/1000 Base-TX interface

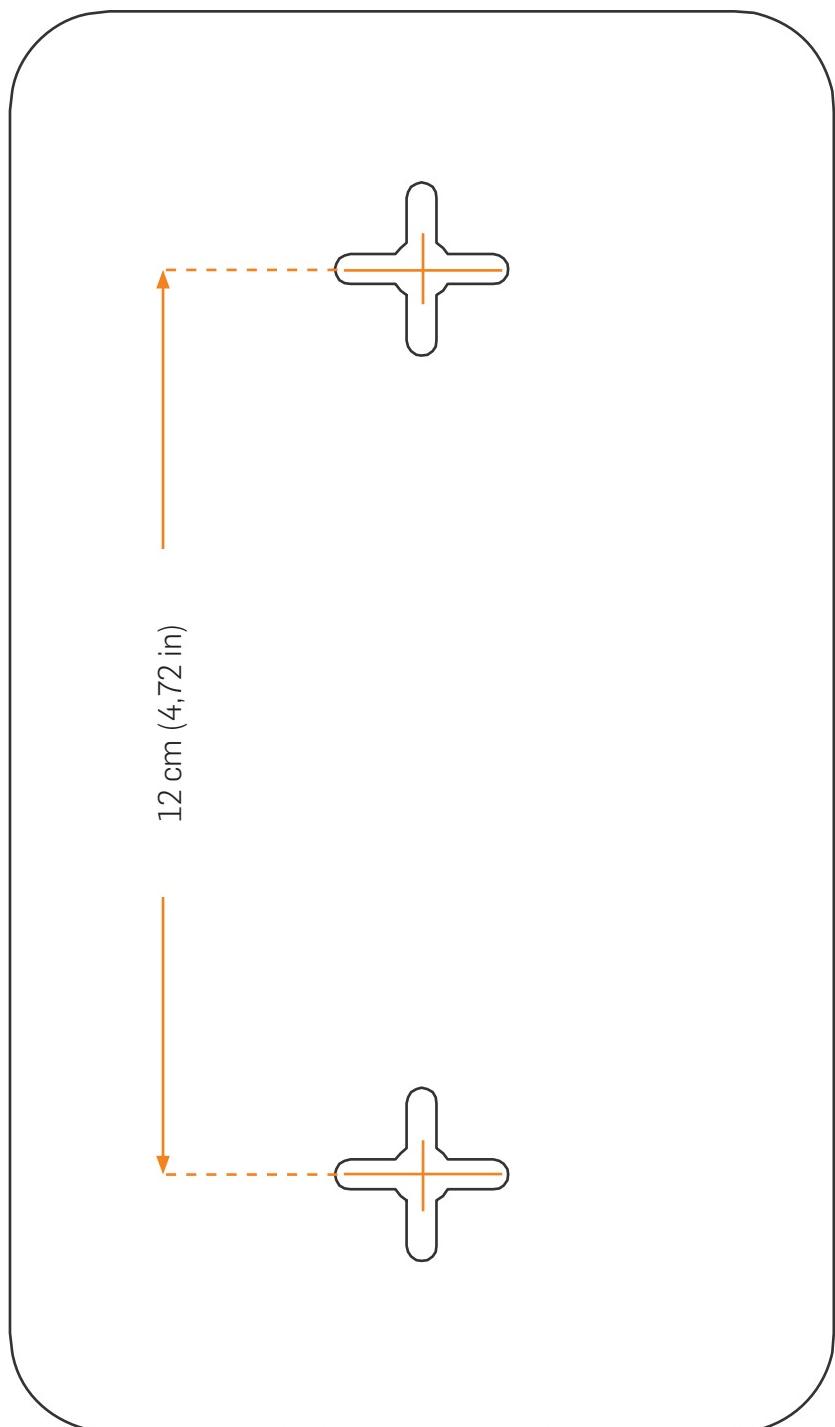
Operating Instructions

Technical specifications

Sophos AP 15		
Chassis	Plastic housing, white	
Maximum throughput	300 Mbit/s	
LAN interfaces	1 x 10/100/1000 Base-TX	
Supported WLAN standards	802.11 b/g/n 2.4 GHz	
Antenna	2 x detachable dipole antenna (2 dBi)	Connector type: RP-SMA
Frequencies / channels	ETSI	FCC
	2.412-2.472 GHz (Channels 1-13)	2.412-2.462 GHz (channels 1-11)
Power supply	12 Vdc / 1 A	
Power consumption	2.5 W (max.)	
Power-over-Ethernet	802.3af, 802.3at	
Dimensions W x H x D	194 x 32 x 115 mm	
Weight	260 g	
Temperature range	Operating: 0°C to 45°C	Storage: -20°C to 60°C
Humidity (non-condensing)	0% to 90%	
Mounting	Desktop / wall	
Supported security standards	WPA/WPA2, WEP, 802.1X (RADIUS)	
Number of supported SSIDs	8	
Regulatory compliance	CE	FCC
	Radio:	EN 300328
	EMC:	EN 301489-1, EN 301489-17
	EMF:	EN 50385
	Safety:	EN 60950-1

AP 15 Mounting template

Do not shrink to fit when printing



AP 30**Scope of supply**

Sophos AP 30

Safety Instructions and
Regulatory Information

Sophos Access Points

Power-over-Ethernet (PoE)
injector + power cord

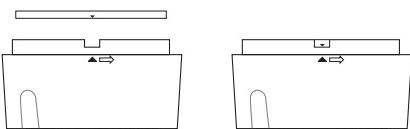
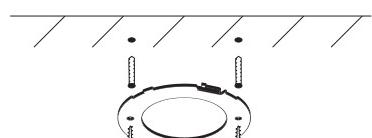
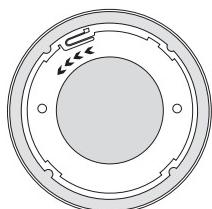
2 Detachable dipole antenna



2 screws and dowels



Ethernet cable



Power

10/100 Base-TX

Mounting instructions

The Sophos AP 30 can be mounted on the ceiling. Screws are included in delivery. Use the screws from the scope of supply or screws whose dimensions correspond with the mounting holes in the bracket.

1. Remove the bracket from the housing
Unlock the bracket on the backside by turning it (approx. 5°) counter-clockwise. Then you can take off the bracket.
2. Mount the bracket on the ceiling
Use the screws and anchors from the scope of supply.
3. Place the access point on the bracket
Place the housing on the bracket and lock it by turning clockwise until stop.

Controls
Power (LED display)

Off	Power off
On continuously	Power on
Blinking rapidly	Firmware update
Blinking slowly	No connection to the Sophos UTM

LAN connection (LED display)

On continuously	Network connection, no activity
Blinking	Network activity

WLAN access (LED display)

On continuously	Network connection, no activity
Blinking	Network activity

Interfaces and buttons

Reset	Currently not supported
Ethernet	10/100 Base-TX interface
12 V DC IN	Power

Technical specifications

Sophos AP 30				
Chassis	Plastic housing, white (smoke detector design)			
Maximum throughput	300 Mbit/s			
LAN interfaces	1 x 10/100 Base-TX			
Supported WLAN standards	802.11 b/g/n 2.4 GHz			
Antennas	2 x directional internal antennas (4 dBi)			
Frequencies / channels	2.412–2.462 GHz			Channels 1-11
Power supply	100-240 VAC, 50/60 Hz, max. 0.5 A			
Power consumption	8 W (max.)			
Power-over-Ethernet	Yes (IEEE 802.3af) – 48 VAC/0.375A			
Dimensions	Ø 120 mm, height 50 mm			
Weight	230 g			
Temperature range	Operating: 0°C to 45°C			Storage: -20°C to 70°C
Humidity (non-condensing)	5% to 95%			
Mounting	Desktop / ceiling			
Supported security standards	WPA/WPA2, WEP, 802.1X (RADIUS)			
Number of supported SSIDs	8			
Regulatory compliance		CE	FCC	MIC/VCCI (Japan)
	Radio:	EN 300328	CFR 47, Part 15 Subpart C	Certification ID: 201 WW 11215238
	EMC:	EN 301489-1, EN 301489-17	CFR 47, Part 15 Subpart B	V-3/2011.04 V-4/2010.04
	EMF:	EN 50385	FCC 1.1310, IEEE C95.1	N/a
	Safety:	EN 60950-1	N/a	N/a

AP 50

Scope of supply



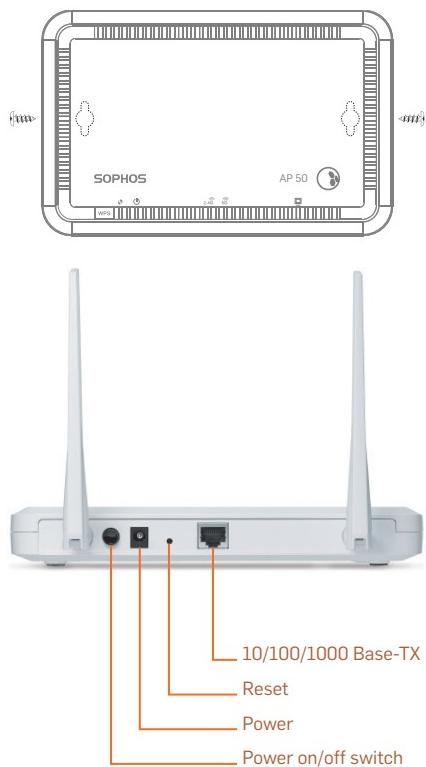
Sophos AP 50

Security Notes

Power-over-Ethernet (PoE)
injector + power cord

2 Detachable dipole antenna

Ethernet cable



10/100/1000 Base-TX
Reset
Power
Power on/off switch

Mounting instructions

The Sophos AP 50 can be mounted on the wall. Screws are not included in delivery. Only use screws whose dimensions correspond with the mounting holes on the back side.

Controls

Power (LED display)	
Off	Power off
On continuously	Power on
Blinking rapidly	Firmware update
Blinking slowly	No connection to the Sophos UTM
LAN connection (LED display)	
On continuously	Network connection, no activity
Blinking	Network activity
2.4G Wireless LAN access with 2.4 GHz (LED display)	
On continuously	Network connection, no activity
Blinking	Network activity
5G Wireless LAN access with 5 GHz (LED display)	
On continuously	Network connection, no activity
Blinking	Network activity
5G Interfaces and buttons	
WPS	Currently not supported
Off	Power on/off switch
DC 12V IN	Power
Reset	Currently not supported
PoE/LAN	10/100/1000 Base-TX interface

Operating Instructions

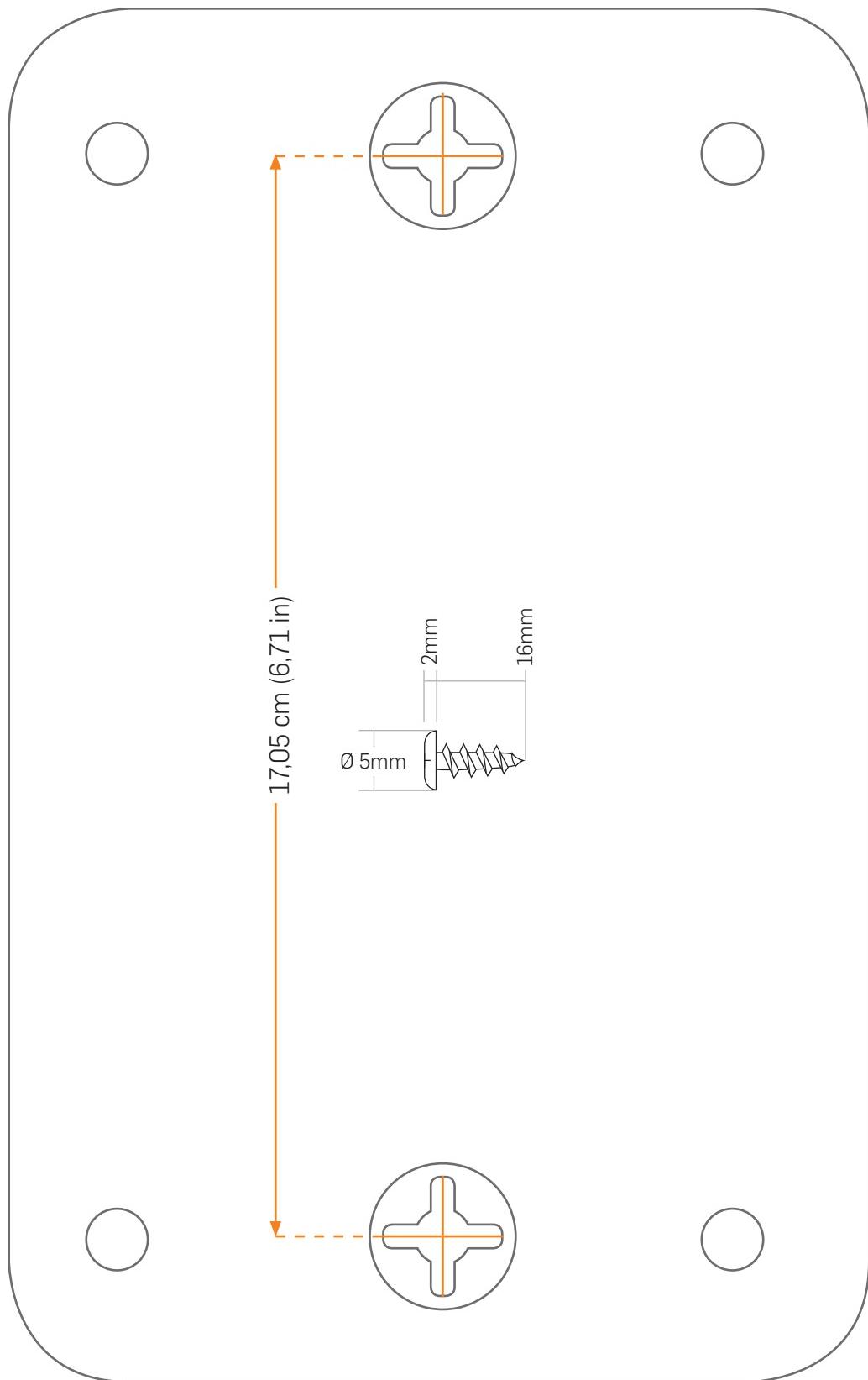
Technical specifications

Sophos AP 50					
Chassis	Plastic housing, white				
Maximum theoretical throughput	300 Mbit/s				
LAN interfaces	1 x 10/100/1000 Base-TX				
Supported WLAN standards	802.11 a/b/g/n 2.4 GHz / 5 GHz				
Antennas	2 x 2.4G/5G (3dBi/5dBi) dual-band antenna				
Frequencies / channels	Radio I: 11b/g/n: 2.412-2.472 GHz (ETSI)	Channels 1-11			
	2.412-2.462 (FCC)	Channels 1-11 (FCC)			
	Radio II: 11a/n: 5.180-5.240 GHz (ETSI / FCC)	Channels 36, 40, 44, 48 (ETSI / FCC)			
	5.745-5.825 GHz (FCC)	Channels 149, 153, 157, 161, 165 (FCC)			
Power supply	100-240 VAC, 50/60 Hz, max. 0.3 A				
Power consumption	9,6 W (800 mA/12 V)*				
Power-over-Ethernet	Yes (802.3at)				
Dimensions	217 x 139 x 28 mm				
Weight	390 g				
Temperature range	Operating: 0°C to 45°C		Storage: -10°C to 70°C		
Humidity (non-condensing)	15% to 95%				
Mounting	Desktop / wall				
Supported security standards	WPA/WPA2, WEP, 802.1X (RADIUS)				
Number of supported SSIDs	8				
Regulatory compliance		CE	FCC		
	Radio:	EN 300328, EN 301893	CFR 47, Part 15 Subpart C, E	Certification ID: 201-140005	
	EMC:	EN 301489-1, EN 301489-17 EN 60601-1-2 (medical electrical equipment)	CFR 47, Part 15 Subpart B	V-3/2013.04 V-4/2012.04	
	EMF:	EN 50385	FCC 1.1310, IEEE C95.1	N/a	
	Safety:	EN 60950-1	N/a	N/a	

* It is recommended to only use PoE+ capable (IEEE 802.3at) equipment to power the Sophos AP 50.

AP 50 Mounting template

Do not shrink to fit when printing





Sophos AP 100



Security Notes

AP 100

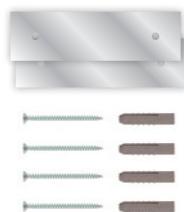
Scope of supply



Power-over-Ethernet (PoE)
injector + power cord



3 Detachable dipole antenna



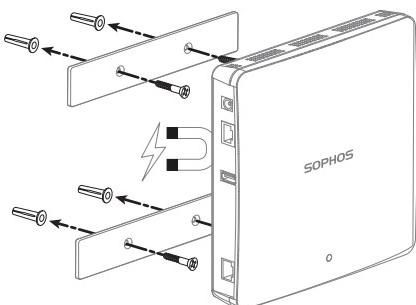
4 screws, dowels
and metal plates



Ethernet cable



Important note: Sophos AP 100 requires Sophos UTM V 9.207 to be installed.



Mounting instructions

The Sophos AP 100 can be mounted on the wall. A mounting kit is included in delivery.

Controls

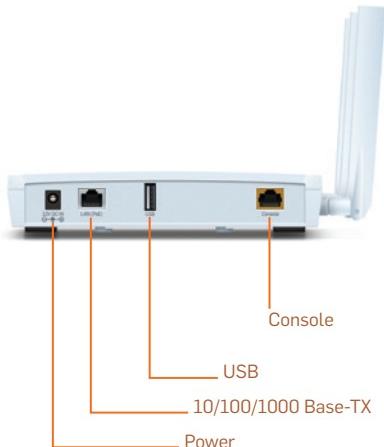


LED

Green - blinking slowly	AP is booting
Green - blinking rapidly	Network connectivity
Orange - blinking slowly	No connection to the Sophos UTM
Orange - blinking rapidly	Firmware update

Interfaces and buttons

12V DC-IN	Power
LAN (PoE)	10/100/1000 Base-TX interface
Console	Console access for debugging purposes
USB	Currently not used; reserved for future use



Technical specifications

Sophos AP 100		
Chassis	Plastic housing, white	
Physical security	Kensington lock	
Maximum theoretical throughput	1.3 Gbps (5GHz / 802.11ac) + 450 Mbps (2.4GHz / 802.11n)	
LAN interfaces	1 x 10/100/1000 Base-TX	
Supported WLAN standards	802.11a/b/g/n/ac	
Antenna	3 x detachable dipole antenna (2 dBi)	Connector type: RP-SMA
Frequencies / channels	ETSI	
	2.412-2.472 GHz (Channels 1-13)	RLAN sub-band 1: 5.180-5.320GHz (channels 36-64) RLAN sub-band 2: 5.500-5.580GHz (channels 100-116) 5.660-5.700GHz (channels 132-140)
	FCC	
	2.412-2.462GHz (channels 1-11)	U-NII-1: 5.180-5.240GHz (channels 36-48) U-NII-2: 5.260-5.320GHz (channels 52-64) U-NII-2e: 5.500-5.580GHz (channels 100-116) 5.660-5.700GHz (channels 132-140) U-NII-3: 5.745-5.825GHz (channels 149-165)
Power supply	12 Vdc / 4 A	
Power consumption	13 W (max.)	
Power-over-Ethernet	802.3af, 802.3at	
Dimensions W x H x D	183 x 36 x 183 mm	
Weight	505 g	
Temperature range	Operating: 0°C to 50°C	
Humidity (non-condensing)	0% to 90%	
Mounting	Desktop / wall	
Supported security standards	WPA/WPA2, WEP, 802.1X (RADIUS)	
Number of supported SSIDs	8 per radio (16 in total)	
Regulatory compliance		CE
	Radio:	EN 300 328, EN 301 893
	EMC:	EN 301 489-1, EN 301 489-17
	EMF:	EN 50385
	Safety:	EN 60950-1
		FCC
		CFR 47, Part 15 Subpart C, E
		CFR 47, Part 15 Subpart B
		FCC 1.1310, IEEE C95.1
		N/a

Power-over-Ethernet injector

(Optionally included with AP 30, AP 50, and AP 100)

The PoE injector converts alternating current (AC) to direct current (DC), which is then provided over the Ethernet cable to power the Sophos Access Points AP 30, AP 50, and AP 100.

Installation



Before placing the PoE injector, please pay attention to the following safety instructions:

- Do not cover the PoE injector or block the airflow to the PoE with any foreign objects. Keep the PoE away from excessive heat and humidity and free from vibration and dust.
- Ensure that the cable length from Ethernet network source to the access point does not exceed 100 m (330 ft). The PoE is not a repeater and does not amplify the Ethernet data signal.

To install the PoE injector, proceed as follows:

1. Connect an Ethernet cable to the Data & Power Out interface.
2. Connect the other end of this Ethernet cable to the Ethernet interface of the access point.
3. Connect an Ethernet cable to the Data In interface.
4. Connect the other end of this Ethernet cable to your network switch.
5. Connect the AC power cord from the scope of supply to the PoE injector.
6. Connect the AC power cable to an AC outlet (100-240 VAC).

Controls

	PoE injector PD-3501/AC (AP 30)	PoE injector PD-9001GR/AC (AP 50/AP 100)
LED display		
Off	Power off	
Yellow continuously	Power on	
Green continuously	A remote terminal is connected	A remote terminal is connected
Green blinking	Overload state or short-circuit	Overload state or short-circuit
Interfaces		
Input (Data In)	1 x 10/100 Base-TX	1 x 10/100/1000 Base-TX
Output (Data & Power Out)	1 x 10/100 Base-TX, plus 50 VDC	1 x 10/100/1000 Base TX, plus 55 VDC

Operating Instructions

Technical specifications

	PoE injector PD-3501/AC (AP 30)	PoE injector PD-9001GR/AC (AP 50/AP 100)
Chassis	Plastic housing	Plastic housing
Input power	AC input voltage: 90-264 VAC	AC Input Voltage: 100 to 240 VAC
	AC input current: 0.5 A, 100-240 VAC	AC Input Current: 0.8A @ 100-240 VAC
	AC frequency: 47/63 Hz	AC Frequency: 50 to 60 Hz
Power-over-Ethernet output (max.)	Output power voltage: 50 VDC	Output power voltage: 55 VDC
	Output power: 15.4 W	Output power: 30 W
Supported PoE standard	802.3af compliant	802.3at compliant
Weight	200 g	200 g
Dimensions W x H x D	53 x 33 x 140 mm	1 x 10/100/1000 Base TX, plus 55 VDC
Mounting	Desktop / wall	Desktop / wall
Temperature	0°C to 40°C (operating)	0°C to 40°C (operating)
	-20°C to 70°C (storage)	-20°C to 70°C (storage)
Humidity (non-condensing)	10% to 90%	10% to 90%
Regulatory compliance	CE, FCC, VCCI, UL, GS, RoHS, WEEE	CE, FCC, VCCI, UL, GS, RoHS, WEEE

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